

SUB A4

THAT WHICH IS CLAIMED IS:

1. A device for controlling an interactive receiver unit at a remote location, comprising
a housing forming an enclosure,
a manually actuatable keypad mounted on the housing,
control means mounted in the enclosure and operatively connected to said manually actuatable keypad for receiving selected input data entered manually on the keypad corresponding to desired programming selections at the remote location,
means for storing financial information of the user, and
transmitter means operatively connected to said control means for
 - a) transmitting desired programming selections to an interactive receiver unit at a remote location corresponding to a selected keypad sequence so as to choose a desired programming and interact therewith through the manually actuatable keypad, and
 - b) transmitting the financial information of the user to the receiver unit at the remote location.
2. The device according to claim 1 including means for transmitting the financial information on a communication channel different from the communication channel used to transmit desired programming selections.
3. The device according to claim 1 wherein said device further comprises the hand set of a phone, wherein phone numbers are dialed from the keypad of said device, and including means for respectively transmitting and receiving data to and from the receiver unit positioned at the remote location.
4. The device according to claim 3 wherein said device includes switch means for switching between use of the device as a phone handset and use of the device as a controller for

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interaction with the interactive receiver unit positioned at the remote location.

5. The device according to claim 1 including switch means for switching between keypad selection of normal television channels and keypad selection of subchannels of the transaction information sets.

BE 5.6. The device according to claim 1 wherein said means for receiving ~~storing~~ ~~inputting~~ financial information of said user includes a slot for wiping a card containing the financial information of the user.

6. The device according to claim 5 wherein said slot comprises a magnetic-strip/IC reader.

B 7. The device according to claim 1 wherein said keypad comprises a ~~qwerty~~ ^{qwerty} keypad.

8. The device according to claim 1 wherein said housing is configured to be held in one hand.

SUBA 10. A remote control device for use with a transactional processing system having a receiver unit that receives identical transaction information sets broadcast in subchannels from a programming transmitter and then selects, stores and displays a desired information set, comprising

- a housing,
- a manually actuable keypad positioned on an outer surface of the housing,
- control means contained within the housing and operatively connected to said manually actuable keypad for receiving data entered manually on the keypad corresponding to desired programming selections in the receiver unit,

means for storing financial information of the user, and including means mounted by the housing for inputting said financial information to the financial storage means, transmitter means operatively connected to said control means for

a) transmitting desired programming selections to a receiver unit corresponding to the selected keypad sequence so as to choose a desired programming and interact with the receiver unit through the manually actuatable keypad, and

b) transmitting any financial information of the user to the receiver unit to authorize a desired transaction in real time,

phone circuitry including speaker and microphone means, and receiver unit and transmitter means for transmitting and receiving phone signals to and from said receiver unit, and

switch means for actuating said remote control device between 1) a phone wherein said phone circuitry is activated, and 2) a device for selectively interacting with said receiver unit to choose desired programming and authorize transactions.

12. The remote control device according to claim 11 wherein said keypad includes means for activating a scrolling function within the receiver unit for scrolling through individual transaction information sets.

13. The remote control device according to claim 11 wherein said means for inputting financial information of said user includes a slot for wiping a card containing the financial information of the user.

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13. The remote control device according to claim 10 wherein said slot comprises a magnetic-strip/IC reader.

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14. The remote control device according to claim 11 wherein said financial information storage means includes long term storage means for storing financial information of the user for subsequent transactions.

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15. The remote control device according to claim 14 wherein said long term storage means comprises an EEPROM.

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16. The remote control device according to claim 11 wherein said keypad comprises a ^{qwerty} ~~qwerty~~ keypad.

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17. The remote control device according to claim 11 including ^{another} ~~another~~ switch means for switching between keypad selection of normal television channels and keypad selection of subchannels of the transaction information sets.

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18. The remote control device according to claim 11 wherein said housing is configured to be held in one hand.

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19. A remote control device for use with a transactional processing system having a receiver unit that receives identical transaction information sets broadcast in subchannels from a programming transmitter and then selects, stores and displays a desired information set, said receiver unit also including means for receiving and selecting desired television channels, comprising:

a closed housing which is configured to be held in one hand,

a manually actuatable keypad positioned on an outer surface of the housing,

control means contained within the housing operatively connected to said manually actuable keypad for receiving data entered manually on the keypad corresponding to desired programming selections in the receiver unit,

means for storing financial information of the user, and including means positioned on the housing for inputting said financial information to the ^{storing} storage means,

transmitter means operatively connected to said control means for

a) transmitting desired programming selections to the receiver unit on a first communication channel corresponding to the selected keypad sequence so as to choose i) desired programming of transaction information sets and ii) selected television channels, and

b) transmitting the financial information of the user to a receiver unit on a second communication channel to authorize a desired transaction in real time, and

switch means for actuating said remote control device between 1) a television controller for selecting television channels, and 2) a controller for interacting with said receiver unit for selecting subchannels and transmitting financial information to said receiver unit.

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~~20~~. A remote control device for selectively controlling interaction with a receiver unit of a transactional processing system used for purchasing products and services from a plurality of available products and services,

wherein said receiver unit includes means for receiving identical transaction information sets broadcast in subchannels from a programming transmitter, and including means for selecting, storing and then displaying a desired information set from the information sets received within

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the receiver unit and to select a desired transaction, said receiver unit including means for receiving programming selection and financial information signals from a remote control device, said remote control device comprising:

a manually actuable keypad,

control means operatively connected to said manually actuable keypad for receiving selected data entered manually on the keypad corresponding to desired programming selections in the receiver unit,

means for storing financial information of the user, and

transmitter means operatively connected to said control means for

a) transmitting the desired programming selections to said receiver unit corresponding to a selected keypad sequence so as to choose the desired programming and interact therewith through the manually actuable keypad, and

b) transmitting the financial information of the user to the receiver unit through a second communication channel to authorize a desired transaction in real time.

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21. The remote control device according to claim 20 wherein said keypad includes means for activating a scrolling function within the receiver unit for scrolling through individual transaction information sets.

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22. The remote control device according to claim 20 wherein said means for storing financial information of said user includes a slot for wiping a card containing the financial information of the user.

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23. The remote control device according to claim ²⁵~~20~~ wherein said slot comprises a magnetic-strip/IC reader.

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24. The remote control device according to claim ²³~~20~~ wherein said ~~storage~~^{storing} means includes long term ~~storage~~^{storing} means for storing financial information of the user for subsequent transactions.

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25. The remote control device according to claim ²⁷~~24~~ wherein said long term storage means comprises an EEPROM.

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26. The remote control device according to claim ²³~~20~~ wherein said keypad comprises a ~~qwerty~~^{qwerty} keypad.

³⁰
27. The remote control device according to claim ²³~~20~~ wherein said receiver unit includes means connecting to a local phone line, and wherein said remote control device comprises the hand set of a phone, wherein phone numbers are dialed from the keypad of said device, and including means for transmitting and receiving the phone ~~data~~^{number} between the remote control device and the receiver unit.

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28. The remote control device according to claim ³⁰~~27~~ wherein said remote control device includes switch means for switching between use as a phone handset and use as a controller for interaction with the receiver unit.

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29. The remote control device according to claim ²³~~20~~ wherein said device includes means for selecting normal television channels, and including switch means for switching between keypad selection of television channels and keypad selection of subchannels of the transaction information sets.

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30. A transactional processing system for purchasing products and services from a plurality of available products and

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services and processing corresponding financial transactions in real-time comprising:

a programming transmitter means for broadcasting and updating a plurality of transaction information sets associated with said plurality of available products and services via a first communication channel, said first communication channel having a plurality of subchannels, said subchannels each transmitting a corresponding transaction information set in said first communication channel;

a receiver unit serving a user for simultaneously receiving identical transaction information sets broadcast in subchannels from the programming transmitter means, and including means for selecting, storing and then displaying a desired information set from the broadcast information sets simultaneously received within the receiver unit and to select a desired transaction, said receiver unit including means for receiving programming selection and financial information signals from a remote control device,

means forming a second communication channel originating at the receiver unit and through which financial information of the user is transmitted to a desired destination so as to authorize the desired transaction in real time for the selected products and services, and wherein

said remote control device comprising,

a manually actuable keypad,

control means operatively connected to said manually actuable keypad for receiving data entered manually on the keypad corresponding to desired programming selections in the receiver unit,

means for storing financial information of the user, and transmitter means operatively connected to said control means for

a) transmitting the desired programming selections to the receiver unit corresponding to a selected keypad

sequence so as to choose the desired programming and interact with the receiver unit, and

b) transmitting the financial information of the user to the receiver unit to authorize a desired transaction in real time.

³⁴_{21.} The system according to claim ³³₂₀ wherein said keypad includes means for activating a scrolling function within the receiver unit for scrolling through individual transaction information sets.

³⁵_{22.} The system according to claim ³³₂₀ wherein said means for storing financial information of said user includes a slot for wiping a card containing the financial information of the user.

³⁶_{23.} The system according to claim ³⁵₂₂ wherein said slot comprises a magnetic-strip/IC reader.

³⁷_{24.} The system according to claim ³³₂₀ wherein said storage means includes long term ^{storage} means for storing financial information of the user for subsequent transactions.

³⁸_{25.} The system according to claim ³⁷₂₄ wherein said long term storage means comprises an EEPROM.

³⁹_{26.} The system according to claim ³³₂₀ wherein said keypad comprises a ^{qwerty} keypad.

⁴⁰_{37.} The system according to claim ³³₂₀ wherein said receiver unit includes means connecting to a phone line of the central office, and wherein said remote control device comprises the handset of ^a phone, wherein phone numbers are dialed from the keypad of said remote control device, said remote control device

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including means for transmitting and receiving phone messages and data between the remote control ^{device} ~~unit~~ and the receiver unit.

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38. The system according to claim 37 wherein said remote control device includes switching means for switching between use as a phone handset and use as a controller for interaction with the receiver unit.

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39. The system according to claim 30 wherein said receiver unit includes means for selecting normal television channels and said remote control device includes switch means for switching between keypad selection of television channels and keypad selection of subchannels of the transaction information sets.

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40. The system according to claim 30 wherein said transaction information sets further comprises a plurality of prompting data corresponding to a product or service for prompting users to make a selection.

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41. The system according to claim 40 wherein said set of transaction information sets further comprises:
a plurality of graphic information corresponding to the desired product or service.

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42. The system according to claim 30 wherein said first communication channel comprises:
a satellite uplink/downlink transmission between said programming transmitter and one operator means for receiving and transmitting information; and
a broadcast channel from said operator means to said receiver unit.

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43. The system according to claim 30 wherein said second communication channel is a phone line.

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33 further comprising
44. The system according to claim 30 wherein said
~~means for transmitting~~
~~transaction processor after authorizing payments, transmits an~~
authorizing signal to a financial institution, said financial
institution making payments to vendors or service providers.

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45. The system according to claim 44 wherein said
receiver unit is connected to a television set, said graphic
information and said prompting data being displayed on said
television set.

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46. A device according to claim 1 wherein said
transmitting means comprises means for interacting with a video
game.

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47. A device according to claim 1 wherein said
~~interactive receiver~~ ^{unit} is positioned within a television set.

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48. A remote control device according to claim 11
including means for interacting with a video game.

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49. A remote control device according to claim 21
including means for interacting with a video game.

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50. A transactional processing system according to
claim 30 wherein said programming transmitter means includes RAM
for storing information for transmission.

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